

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/783,931C
Source: 1FW/b
Date Processed by STIC: 1/13/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 09/783,931C

CRF Edit Date: 1/17/06
Edited by: AS

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

✓ Deleted: ✓ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

✓ Other: globally corrected spelling of "consensus" and "human"



IFW16

RAW SEQUENCE LISTING

DATE: 01/17/2006

PATENT APPLICATION: US/09/783,931C

TIME: 12:34:48

Input Set : N:\AMC\783931.TXT

Output Set: N:\CRF4\01172006\I783931C.raw

4 <110> APPLICANT: Ish-Horowicz, David
 5 Henrique , Domingos Manuel Pinto
 6 Lewis, Julian Hart
 7 Artavanis Tsakonas, Spyridon
 8 Gray, Grace
 10 <120> TITLE OF INVENTION: ANTIBODIES TO VERTEBRATE DELTA PROTEINS
 11 AND FRAGMENTS
 13 <130> FILE REFERENCE: 7326-122-999
 15 <140> CURRENT APPLICATION NUMBER: 09/783,931C
 16 <141> CURRENT FILING DATE: 2001-02-15
 18 <150> PRIOR APPLICATION NUMBER: 08/981,392
 19 <151> PRIOR FILING DATE: 1997-12-22
 21 <150> PRIOR APPLICATION NUMBER: PCT/US96/11178
 22 <151> PRIOR FILING DATE: 1996-06-28
 24 <150> PRIOR APPLICATION NUMBER: 60/000,589
 25 <151> PRIOR FILING DATE: 1995-06-28
 27 <160> NUMBER OF SEQ ID NOS: 95
 29 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 31 <210> SEQ ID NO: 1
 32 <211> LENGTH: 2508
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Gallus gallus
 36 <220> FEATURE:
 37 <221> NAME/KEY: CDS
 38 <222> LOCATION: (277)...(2460)
 39 <223> OTHER INFORMATION: Chick Delta (C-Delta-1) gene
 41 <400> SEQUENCE: 1
 42 gaattcggca cgaggttttt tttttttttt ttccctcttt ttctttcttt tccttttgcc 60
 43 atccgaaaga gctgtcagcc gccgccgggc tgcacctaaa ggcgtcggta gggggataac 120
 44 agtcagagac cctcctgaaa gcaggagacg ggacgggtacc cctccggctc tgcggggcgg 180
 45 ctgcggcccc tccgttcttt cccctcccc gagagacact ctctctttcc cccacgaag 240
 46 acacaggggc aggaacgcga gcgctgcccc tccgcc atg gga ggc cgc ttc ctg 294
 47 Met Gly Gly Arg Phe Leu
 48 1 5
 50 ctg acg ctc gcc ctc ctc tcg gcg ctg ctg tgc cgc tgc cag gtt gac 342
 51 Leu Thr Leu Ala Leu Leu Ser Ala Leu Leu Cys Arg Cys Gln Val Asp
 52 10 15 20
 54 ggc tcc ggg gtg ttc gag ctg aag ctg cag gag ttt gtc aac aag aag 390
 55 Gly Ser Gly Val Phe Glu Leu Lys Leu Gln Glu Phe Val Asn Lys Lys
 56 25 30 35
 58 ggg ctg ctc agc aac cgc aac tgc tgc cgg ggg ggc ccc gga ggc 438
 59 Gly Leu Leu Ser Asn Arg Asn Cys Cys Arg Gly Gly Gly Pro Gly Gly
 60 40 45 50

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62	gcc	ggg	cag	cag	cag	tgc	gac	tgc	aag	acc	ttc	ttc	cgc	gtc	tgc	ctg	486
63	Ala	Gly	Gln	Gln	Gln	Cys	Asp	Cys	Lys	Thr	Phe	Phe	Arg	Val	Cys	Leu	
64	55					60					65					70	
66	aag	cac	tac	cag	gcc	agc	gtc	tcc	ccc	gag	ccg	ccc	tgc	acc	tac	ggc	534
67	Lys	His	Tyr	Gln	Ala	Ser	Val	Ser	Pro	Glu	Pro	Pro	Cys	Thr	Tyr	Gly	
68					75					80						85	
70	agc	gcc	atc	acc	ccc	gtc	ctc	ggc	gcc	aac	tcc	ttc	agc	gtc	ccc	gac	582
71	Ser	Ala	Ile	Thr	Pro	Val	Leu	Gly	Ala	Asn	Ser	Phe	Ser	Val	Pro	Asp	
72				90					95					100			
74	ggc	gcg	ggc	ggc	gcc	gac	ccc	gcc	ttc	agc	aac	ccc	atc	cgc	ttc	ccc	630
75	Gly	Ala	Gly	Gly	Ala	Asp	Pro	Ala	Phe	Ser	Asn	Pro	Ile	Arg	Phe	Pro	
76			105					110					115				
78	ttc	ggc	ttc	acc	tgg	ccc	ggc	acc	ttc	tcg	ctc	atc	atc	gag	gct	ctg	678
79	Phe	Gly	Phe	Thr	Trp	Pro	Gly	Thr	Phe	Ser	Leu	Ile	Ile	Glu	Ala	Leu	
80		120				125					130						
82	cac	acc	gac	tcc	ccc	gac	gac	ctc	acc	aca	gaa	aac	ccc	gag	cgc	ctc	726
83	His	Thr	Asp	Ser	Pro	Asp	Asp	Leu	Thr	Thr	Glu	Asn	Pro	Glu	Arg	Leu	
84	135					140					145					150	
86	atc	agc	cgc	ctg	gcc	acc	cag	agg	cac	ctg	gcg	gtg	ggc	gag	gag	tgg	774
87	Ile	Ser	Arg	Leu	Ala	Thr	Gln	Arg	His	Leu	Ala	Val	Gly	Glu	Glu	Trp	
88				155					160					165			
90	tcc	cag	gac	ctg	cac	agc	agc	ggc	cgc	acc	gac	ctc	aag	tac	tcc	tat	822
91	Ser	Gln	Asp	Leu	His	Ser	Ser	Gly	Arg	Thr	Asp	Leu	Lys	Tyr	Ser	Tyr	
92				170					175					180			
94	cgc	ttt	gtg	tgt	gat	gag	cac	tac	tac	ggg	gaa	ggc	tgc	tct	gtc	ttc	870
95	Arg	Phe	Val	Cys	Asp	Glu	His	Tyr	Tyr	Gly	Glu	Gly	Cys	Ser	Val	Phe	
96			185					190					195				
98	tgc	cgg	ccc	cgt	gac	gac	cgc	ttc	ggg	cac	ttc	acc	tgt	gga	gag	cgt	918
99	Cys	Arg	Pro	Arg	Asp	Asp	Arg	Phe	Gly	His	Phe	Thr	Cys	Gly	Glu	Arg	
100		200				205					210						
102	ggc	gag	aag	gtc	tgc	aac	cca	ggc	tgg	aag	ggc	cag	tac	tgc	act	gag	966
103	Gly	Glu	Lys	Val	Cys	Asn	Pro	Gly	Trp	Lys	Gly	Gln	Tyr	Cys	Thr	Glu	
104	215					220					225					230	
106	ccg	att	tgc	ttg	cct	ggg	tgt	gac	gag	cag	cac	ggc	ttc	tgc	gac	aaa	1014
107	Pro	Ile	Cys	Leu	Pro	Gly	Cys	Asp	Glu	Gln	His	Gly	Phe	Cys	Asp	Lys	
108				235					240					245			
110	cct	ggg	gaa	tgc	aag	tgc	aga	gtg	ggg	tgg	cag	ggg	cgg	tac	tgt	gac	1062
111	Pro	Gly	Glu	Cys	Lys	Cys	Arg	Val	Gly	Trp	Gln	Gly	Arg	Tyr	Cys	Asp	
112				250					255					260			
114	gag	tgc	atc	cga	tac	cca	ggc	tgc	ctg	cac	ggg	acc	tgt	cag	cag	cca	1110
115	Glu	Cys	Ile	Arg	Tyr	Pro	Gly	Cys	Leu	His	Gly	Thr	Cys	Gln	Gln	Pro	
116			265					270					275				
118	tgg	cag	tgc	aac	tgc	cag	gaa	ggc	tgg	ggc	ggc	ctt	ttc	tgc	aac	cag	1158
119	Trp	Gln	Cys	Asn	Cys	Gln	Glu	Gly	Trp	Gly	Gly	Leu	Phe	Cys	Asn	Gln	
120		280				285						290					
122	gac	ctg	aac	tac	tgc	act	cac	cac	aag	cca	tgc	aag	aat	ggg	gcc	aca	1206
123	Asp	Leu	Asn	Tyr	Cys	Thr	His	His	Lys	Pro	Cys	Lys	Asn	Gly	Ala	Thr	
124	295					300					305					310	
126	tgc	acc	aac	acc	ggg	cag	ggg	agc	tac	act	tgt	tct	tgc	cga	cct	ggg	1254

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127	Cys	Thr	Asn	Thr	Gly	Gln	Gly	Ser	Tyr	Thr	Cys	Ser	Cys	Arg	Pro	Gly	
128					315					320					325		
130	tac	aca	ggc	tcc	agc	tgc	gag	att	gaa	atc	aac	gaa	tgt	gat	gcc	aac	1302
131	Tyr	Thr	Gly	Ser	Ser	Cys	Glu	Ile	Glu	Ile	Asn	Glu	Cys	Asp	Ala	Asn	
132				330					335						340		
134	cct	tgc	aag	aat	ggg	gga	agc	tgc	acg	gat	ctc	gag	aac	agc	tat	tcc	1350
135	Pro	Cys	Lys	Asn	Gly	Gly	Ser	Cys	Thr	Asp	Leu	Glu	Asn	Ser	Tyr	Ser	
136			345					350					355				
138	tgt	acc	tgc	ccc	cca	ggc	ttc	tat	ggg	aaa	aac	tgt	gag	ctg	agt	gca	1398
139	Cys	Thr	Cys	Pro	Pro	Gly	Phe	Tyr	Gly	Lys	Asn	Cys	Glu	Leu	Ser	Ala	
140		360					365				370						
142	atg	act	tgt	gct	gat	gga	ccg	tgc	ttc	aat	gga	ggg	cga	tgc	act	gac	1446
143	Met	Thr	Cys	Ala	Asp	Gly	Pro	Cys	Phe	Asn	Gly	Gly	Arg	Cys	Thr	Asp	
144	375					380				385						390	
146	aac	cct	gat	ggg	gga	tac	agc	tgc	cgc	tgc	cca	ctg	ggg	tat	tct	ggg	1494
147	Asn	Pro	Asp	Gly	Gly	Tyr	Ser	Cys	Arg	Cys	Pro	Leu	Gly	Tyr	Ser	Gly	
148				395					400						405		
150	ttc	aac	tgt	gaa	aag	aaa	atc	gat	tac	tgc	agt	tcc	agc	cct	tgt	gct	1542
151	Phe	Asn	Cys	Glu	Lys	Lys	Ile	Asp	Tyr	Cys	Ser	Ser	Ser	Pro	Cys	Ala	
152				410				415					420				
154	aat	gga	gcc	cag	tgc	gtt	gac	ctg	ggg	aac	tcc	tac	ata	tgc	cag	tgc	1590
155	Asn	Gly	Ala	Gln	Cys	Val	Asp	Leu	Gly	Asn	Ser	Tyr	Ile	Cys	Gln	Cys	
156			425				430					435					
158	cag	gct	ggc	ttc	act	ggc	agg	cac	tgt	gac	gac	aac	gtg	gac	gat	tgc	1638
159	Gln	Ala	Gly	Phe	Thr	Gly	Arg	His	Cys	Asp	Asp	Asn	Val	Asp	Asp	Cys	
160		440					445					450					
162	gcc	tcc	ttc	ccc	tgc	gtc	aat	gga	ggg	acc	tgt	cag	gat	ggg	gtc	aac	1686
163	Ala	Ser	Phe	Pro	Cys	Val	Asn	Gly	Gly	Thr	Cys	Gln	Asp	Gly	Val	Asn	
164	455				460					465					470		
166	gac	tac	tcc	tgc	acc	tgc	ccc	ccg	gga	tac	aac	ggg	aag	aac	tgc	agc	1734
167	Asp	Tyr	Ser	Cys	Thr	Cys	Pro	Pro	Gly	Tyr	Asn	Gly	Lys	Asn	Cys	Ser	
168				475					480						485		
170	acg	ccg	gtg	agc	aga	tgc	gag	cac	aac	ccc	tgc	cac	aat	ggg	gcc	acc	1782
171	Thr	Pro	Val	Ser	Arg	Cys	Glu	His	Asn	Pro	Cys	His	Asn	Gly	Ala	Thr	
172				490					495					500			
174	tgc	cac	gag	aga	agc	aac	cgc	tac	gtg	tgc	gag	tgc	gct	cgg	ggc	tac	1830
175	Cys	His	Glu	Arg	Ser	Asn	Arg	Tyr	Val	Cys	Glu	Cys	Ala	Arg	Gly	Tyr	
176			505				510						515				
178	ggc	ggc	ctc	aac	tgc	cag	ttc	ctg	ctc	ccc	gag	cca	cct	cag	ggg	ccg	1878
179	Gly	Gly	Leu	Asn	Cys	Gln	Phe	Leu	Leu	Pro	Glu	Pro	Pro	Gln	Gly	Pro	
180		520				525						530					
182	gtc	atc	gtt	gac	ttc	acc	gag	aag	tac	aca	gag	ggc	cag	aac	agc	cag	1926
183	Val	Ile	Val	Asp	Phe	Thr	Glu	Lys	Tyr	Thr	Glu	Gly	Gln	Asn	Ser	Gln	
184	535				540					545					550		
186	ttt	ccc	tgg	atc	gca	gtg	tgc	gcc	ggg	att	att	ctg	gtc	ctc	atg	ctg	1974
187	Phe	Pro	Trp	Ile	Ala	Val	Cys	Ala	Gly	Ile	Ile	Leu	Val	Leu	Met	Leu	
188				555					560						565		
190	ctg	ctg	ggg	tgc	gcc	gcc	atc	gtc	gtc	gtc	gtc	agg	ctg	aag	gtg	cag	2022
191	Leu	Leu	Gly	Cys	Ala	Ala	Ile	Val	Val	Cys	Val	Arg	Leu	Lys	Val	Gln	

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192          570          575          580
194 aag agg cac cac cag ccc gag gcc tgc agg agt gaa acg gag acc atg      2070
195 Lys Arg His His Gln Pro Glu Ala Cys Arg Ser Glu Thr Glu Thr Met
196          585          590          595
198 aac aac ctg gcg aac tgc cag cgc gag aag gac atc tcc atc agc gtc      2118
199 Asn Asn Leu Ala Asn Cys Gln Arg Glu Lys Asp Ile Ser Ile Ser Val
200          600          605          610
202 atc ggt gcc act cag att aaa aac aca aat aag aaa gta gac ttt cac      2166
203 Ile Gly Ala Thr Gln Ile Lys Asn Thr Asn Lys Lys Val Asp Phe His
204 615          620          625          630
206 agc gat aac tcc gat aaa aac ggc tac aaa gtt aga tac cca tca gtg      2214
207 Ser Asp Asn Ser Asp Lys Asn Gly Tyr Lys Val Arg Tyr Pro Ser Val
208          635          640          645
210 gat tac aat ttg gtg cat gaa ctg aag aat gag gac tct gtg aaa gag      2262
211 Asp Tyr Asn Leu Val His Glu Leu Lys Asn Glu Asp Ser Val Lys Glu
212          650          655          660
214 gag cat ggc aaa tgc gaa gcc aag tgt gaa acg tat gat tca gag gca      2310
215 Glu His Gly Lys Cys Glu Ala Lys Cys Glu Thr Tyr Asp Ser Glu Ala
216          665          670          675
218 gaa gag aaa agc gca gta cag cta aaa agt agt gac act tct gaa aga      2358
219 Glu Glu Lys Ser Ala Val Gln Leu Lys Ser Ser Asp Thr Ser Glu Arg
220          680          685          690
222 aaa cgg cca gat tca gta tat tcc act tca aag gac aca aag tac cag      2406
223 Lys Arg Pro Asp Ser Val Tyr Ser Thr Ser Lys Asp Thr Lys Tyr Gln
224 695          700          705          710
226 tcg gtg tac gtc ata tca gaa gag aaa gat gag tgc atc ata gca act      2454
227 Ser Val Tyr Val Ile Ser Glu Glu Lys Asp Glu Cys Ile Ile Ala Thr
228          715          720          725
230 gag gtg taaaacagac gtgacgtggc aaagcttattc gataccgtca tcaagctt      2508
231 Glu Val
235 <210> SEQ ID NO: 2
236 <211> LENGTH: 728
237 <212> TYPE: PRT
238 <213> ORGANISM: Gallus gallus
240 <400> SEQUENCE: 2
241 Met Gly Gly Arg Phe Leu Leu Thr Leu Ala Leu Leu Ser Ala Leu Leu
242 1          5          10          15
243 Cys Arg Cys Gln Val Asp Gly Ser Gly Val Phe Glu Leu Lys Leu Gln
244          20          25          30
245 Glu Phe Val Asn Lys Lys Gly Leu Leu Ser Asn Arg Asn Cys Cys Arg
246          35          40          45
247 Gly Gly Gly Pro Gly Gly Ala Gly Gln Gln Gln Cys Asp Cys Lys Thr
248          50          55          60
249 Phe Phe Arg Val Cys Leu Lys His Tyr Gln Ala Ser Val Ser Pro Glu
250 65          70          75          80
251 Pro Pro Cys Thr Tyr Gly Ser Ala Ile Thr Pro Val Leu Gly Ala Asn
252          85          90          95
253 Ser Phe Ser Val Pro Asp Gly Ala Gly Gly Ala Asp Pro Ala Phe Ser
254          100          105          110

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255 Asn Pro Ile Arg Phe Pro Phe Gly Phe Thr Trp Pro Gly Thr Phe Ser
256      115      120      125
257 Leu Ile Ile Glu Ala Leu His Thr Asp Ser Pro Asp Asp Leu Thr Thr
258      130      135      140
259 Glu Asn Pro Glu Arg Leu Ile Ser Arg Leu Ala Thr Gln Arg His Leu
260 145      150      155      160
261 Ala Val Gly Glu Glu Trp Ser Gln Asp Leu His Ser Ser Gly Arg Thr
262      165      170      175
263 Asp Leu Lys Tyr Ser Tyr Arg Phe Val Cys Asp Glu His Tyr Tyr Gly
264      180      185      190
265 Glu Gly Cys Ser Val Phe Cys Arg Pro Arg Asp Asp Arg Phe Gly His
266      195      200      205
267 Phe Thr Cys Gly Glu Arg Gly Glu Lys Val Cys Asn Pro Gly Trp Lys
268      210      215      220
269 Gly Gln Tyr Cys Thr Glu Pro Ile Cys Leu Pro Gly Cys Asp Glu Gln
270 225      230      235      240
271 His Gly Phe Cys Asp Lys Pro Gly Glu Cys Lys Cys Arg Val Gly Trp
272      245      250      255
273 Gln Gly Arg Tyr Cys Asp Glu Cys Ile Arg Tyr Pro Gly Cys Leu His
274      260      265      270
275 Gly Thr Cys Gln Gln Pro Trp Gln Cys Asn Cys Gln Glu Gly Trp Gly
276      275      280      285
277 Gly Leu Phe Cys Asn Gln Asp Leu Asn Tyr Cys Thr His His Lys Pro
278      290      295      300
279 Cys Lys Asn Gly Ala Thr Cys Thr Asn Thr Gly Gln Gly Ser Tyr Thr
280 305      310      315      320
281 Cys Ser Cys Arg Pro Gly Tyr Thr Gly Ser Ser Cys Glu Ile Glu Ile
282      325      330      335
283 Asn Glu Cys Asp Ala Asn Pro Cys Lys Asn Gly Gly Ser Cys Thr Asp
284      340      345      350
285 Leu Glu Asn Ser Tyr Ser Cys Thr Cys Pro Pro Gly Phe Tyr Gly Lys
286      355      360      365
287 Asn Cys Glu Leu Ser Ala Met Thr Cys Ala Asp Gly Pro Cys Phe Asn
288      370      375      380
289 Gly Gly Arg Cys Thr Asp Asn Pro Asp Gly Gly Tyr Ser Cys Arg Cys
290 385      390      395      400
291 Pro Leu Gly Tyr Ser Gly Phe Asn Cys Glu Lys Lys Ile Asp Tyr Cys
292      405      410      415
293 Ser Ser Ser Pro Cys Ala Asn Gly Ala Gln Cys Val Asp Leu Gly Asn
294      420      425      430
295 Ser Tyr Ile Cys Gln Cys Gln Ala Gly Phe Thr Gly Arg His Cys Asp
296      435      440      445
297 Asp Asn Val Asp Asp Cys Ala Ser Phe Pro Cys Val Asn Gly Gly Thr
298      450      455      460
299 Cys Gln Asp Gly Val Asn Asp Tyr Ser Cys Thr Cys Pro Pro Gly Tyr
300 465      470      475      480
301 Asn Gly Lys Asn Cys Ser Thr Pro Val Ser Arg Cys Glu His Asn Pro
302      485      490      495
303 Cys His Asn Gly Ala Thr Cys His Glu Arg Ser Asn Arg Tyr Val Cys

```

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:15; Xaa Pos. 4
Seq#:16; Xaa Pos. 11,15,23,24,28
Seq#:17; Xaa Pos. 41
Seq#:18; Xaa Pos. 34,35,39,44,96
Seq#:19; Xaa Pos. 1,19,23,32,33,36,43
Seq#:23; Xaa Pos. 25,34,35,38,97
Seq#:24; N Pos. 854,973,984,1582,1787,1819,1864,1916,1951,2033,2152,2156
Seq#:24; N Pos. 2171,2183,2194,2212,2220,2226,2230,2244,2245,2264,2265,2266
Seq#:24; N Pos. 2287
Seq#:26; N Pos. 559,678,689,1287,1492,1524,1569,1621,1656,1738,1857,1861
Seq#:26; N Pos. 1876,1888,1899,1917,1925,1931,1935,1942,1943,1952,1953,1954
Seq#:26; N Pos. 1968
Seq#:33; Xaa Pos. 25
Seq#:34; Xaa Pos. 27
Seq#:35; Xaa Pos. 166,179
Seq#:36; Xaa Pos. 51
Seq#:37; Xaa Pos. 28,39
Seq#:40; Xaa Pos. 4,43,45,50,54
Seq#:41; Xaa Pos. 5,8
Seq#:42; Xaa Pos. 1,4,5
Seq#:43; Xaa Pos. 226,230
Seq#:45; Xaa Pos. 55
Seq#:46; Xaa Pos. 47,58,73,101,128,167,168,181,187
Seq#:47; Xaa Pos. 2,4,5,7,8,11,16
Seq#:51; Xaa Pos. 126
Seq#:52; Xaa Pos. 30,33
Seq#:60; Xaa Pos. 76
Seq#:61; Xaa Pos. 12
Seq#:62; Xaa Pos. 4,19,36,48,75
Seq#:63; Xaa Pos. 16,17,22,26,30
Seq#:64; Xaa Pos. 2,6,8,10,13,14,19
Seq#:81; N Pos. 6,12,18,21
Seq#:82; N Pos. 3,9,12,15
Seq#:86; N Pos. 3,9,15,18,21
Seq#:87; N Pos. 3,6,18
Seq#:89; N Pos. 3,15,18
Seq#:91; N Pos. 6,9,21
Seq#:93; N Pos. 6

VERIFICATION SUMMARY

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Input Set : N:\AMC\783931.TXT

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L:1139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:1157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:1159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:16
L:1183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:32
L:1215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:32
L:1221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:80
L:1249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:1251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:16
L:1253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:32
L:1324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:16
L:1326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:32
L:1334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:96
L:1376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:840
L:1378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:960
L:1388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:1560
L:1391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:1740
L:1392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:1800
L:1393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:1860
L:1394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:1920
L:1395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:1980
L:1397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:2100
L:1398 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:2160
L:1399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:2220
L:1400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:2280
L:1448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:540
L:1450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:660
L:1460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:1260
L:1463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:1440
L:1464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:1500
L:1465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:1560
L:1466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:1620
L:1467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:1680
L:1469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:1800
L:1470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:1860
L:1471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:1920
L:1587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:16
L:1610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:16
L:1651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:160
L:1653 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:176
L:1680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:48
L:1703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:16
L:1705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:32
L:1752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:32
L:1758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:48
L:1777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:1796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:1843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:224

VERIFICATION SUMMARY

DATE: 01/17/2006

PATENT APPLICATION: US/09/783,931C

TIME: 12:34:49

Input Set : N:\AMC\783931.TXT

Output Set: N:\CRF4\01172006\I783931C.raw

L:1898 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:48
L:1923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:32
L:1925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:48
L:1927 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:64
L:1931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:96
L:1933 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:112
L:1939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:160
L:1941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:176
L:1960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:2039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:112
L:2062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:16
L:2064 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:32
L:2193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:64
L:2220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:2241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:2243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:16
L:2245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:32
L:2249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:64
L:2272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
L:2274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:16
L:2295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
L:2297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:16
L:2583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:0
L:2599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:0
L:2645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0
L:2661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:0
L:2690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:0
L:2719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:0
L:2748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:0

STATISTICS SUMMARY

PATENT APPLICATION: US/09/783,931C

DATE: 01/17/2006

TIME: 12:34:49

Input Set : N:\AMC\783931.TXT

Output Set: N:\CRF4\01172006\I783931C.raw

Application Serial Number: US/09/783,931C

Alpha or Numeric or Xml: Numeric

Application Class:

Application File Date: 02-15-2001

Art Unit: IFW16

Software Application: FastSEQ

Total Number of Sequences: 95

Total Nucleotides: 16503

Total Amino Acids: 7072

Number of Errors: 0

Number of Warnings: 77

Number of Corrections: 0

MESSAGE SUMMARY

341 W: 77 ((46) "n" or "Xaa" used)

**Raw Sequence Listing before editing,
for reference only**



IFW16

RAW SEQUENCE LISTING

DATE: 01/13/2006

PATENT APPLICATION: US/09/783,931C

TIME: 15:55:08

Input Set : E:\3rd Substi SEQLIST 7326-122 (as filed).TXT

Output Set: N:\CRF4\01132006\I783931C.raw

4 <110> APPLICANT: Ish-Horowicz, David
 5 Henrique , Domingos Manuel Pinto
 6 Lewis, Julian Hart
 7 Artavanis Tsakonas, Spyridon
 8 Gray, Grace
 10 <120> TITLE OF INVENTION: ANTIBODIES TO VERTEBRATE DELTA PROTEINS
 11 AND FRAGMENTS
 13 <130> FILE REFERENCE: 7326-122-999
 15 <140> CURRENT APPLICATION NUMBER: 09/783,931C
 16 <141> CURRENT FILING DATE: 2001-02-15
 18 <150> PRIOR APPLICATION NUMBER: 08/981,392
 19 <151> PRIOR FILING DATE: 1997-12-22
 21 <150> PRIOR APPLICATION NUMBER: PCT/US96/11178
 22 <151> PRIOR FILING DATE: 1996-06-28
 24 <150> PRIOR APPLICATION NUMBER: 60/000,589
 25 <151> PRIOR FILING DATE: 1995-06-28
 27 <160> NUMBER OF SEQ ID NOS: 95
 29 <170> SOFTWARE: FastSEQ for Windows Version 4.0

pp 2-4
**Does Not Comply
 Corrected Diskette Needed**

ERRORED SEQUENCES

2762 <210> SEQ ID NO: 95
 2763 <211> LENGTH: 129
 2764 <212> TYPE: PRT
 2765 <213> ORGANISM: Gallus gallus
 2767 <220> FEATURE:
 2768 <223> OTHER INFORMATION: chicken C-Delta-1
 2770 <400> SEQUENCE: 95
 2771 Thr Met Asn Asn Leu Ala Asn Cys Gln Arg Glu Lys Asp Ile Ser Ile
 2772 1 5 10 15
 2773 Ser Val Ile Gly Ala Thr Gln Ile Lys Asn Thr Asn Lys Lys Val Asp
 2774 20 25 30
 2775 Phe His Ser Asp Asn Ser Asp Lys Asn Gly Tyr Lys Val Arg Tyr Pro
 2776 35 40 45
 2777 Ser Val Asp Tyr Asn Leu Val His Glu Leu Lys Asn Glu Asp Ser Val
 2778 50 55 60
 2779 Lys Glu Glu His Gly Lys Cys Glu Ala Lys Cys Glu Thr Tyr Asp Ser
 2780 65 70 75 80
 2781 Glu Ala Glu Glu Lys Ser Ala Val Gln Leu Lys Ser Ser Asp Thr Ser
 2782 85 90 95
 2783 Glu Arg Lys Arg Pro Asp Ser Val Tyr Ser Thr Ser Lys Asp Thr Lys
 2784 100 105 110

RAW SEQUENCE LISTING

DATE: 01/13/2006

PATENT APPLICATION: US/09/783,931C

TIME: 15:55:09

Input Set : E:\3rd Substi SEQLIST 7326-122 (as filed).TXT

Output Set: N:\CRF4\01132006\I783931C.raw

2785 Tyr Gln Ser Val Tyr Val Ile Ser Glu Glu Lys Asp Glu Cys Ile Ile

2786 115 120 125

2787 Ala

E--> 2791 (46)

see pp 3-4 for more error

u
&
<223> Consenses sequence of Chick Delta and Mouse Delta

<400> 13

replace globally

09/783,931c

4

human

<223> Predicted amino acid sequence of humna delta

<220>

<221> VARIANT

<222> 4

<223> Xaa = Any Amino Acid

<400> 15

(replace globally)

VERIFICATION SUMMARY

DATE: 01/13/2006

PATENT APPLICATION: US/09/783,931C

TIME: 15:55:10

Input Set : E:\3rd Substi SEQLIST 7326-122 (as filed).TXT

Output Set: N:\CRF4\01132006\I783931C.raw

L:1139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:1157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
M:341 Repeated in SeqNo=16
L:1183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:32
L:1215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:32
M:341 Repeated in SeqNo=18
L:1249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
M:341 Repeated in SeqNo=19
L:1324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:16
M:341 Repeated in SeqNo=23
L:1376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:840
M:341 Repeated in SeqNo=24
L:1448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:540
M:341 Repeated in SeqNo=26
L:1587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:16
L:1610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:16
L:1651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:160
M:341 Repeated in SeqNo=35
L:1680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:48
L:1703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:16
M:341 Repeated in SeqNo=37
L:1752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
M:341 Repeated in SeqNo=40
L:1777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:1796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:1843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:224
L:1898 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:48
L:1923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:32
M:341 Repeated in SeqNo=46
L:1960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:2039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:112
L:2062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:16
M:341 Repeated in SeqNo=52
L:2193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:64
L:2220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:2241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
M:341 Repeated in SeqNo=62
L:2272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
M:341 Repeated in SeqNo=63
L:2295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
M:341 Repeated in SeqNo=64
L:2583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:0
L:2599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:0
L:2645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0
L:2661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:0
L:2690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:0
L:2719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:0
L:2748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:0

VERIFICATION SUMMARY

DATE: 01/13/2006

PATENT APPLICATION: US/09/783,931C

TIME: 15:55:10

Input Set : E:\3rd Substi SEQLIST 7326-122 (as filed).TXT

Output Set: N:\CRF4\01132006\I783931C.raw

L:2791 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:95